With this Response to Final Office Action we have not amended our claims in any

way. The listing of claims below represents the current claims in the Application:

**Listing of the Claims:** 

Claim 1 (Previously Amended): A blood pressure-monitoring device,

comprising:

a first module configured to generate a first time-dependent signal;

an optical module comprising an optical source and an optical detector configured

to generate a second time-dependent signal;

a microprocessor configured to: i) receive the first time-dependent signal from the

first module and the second time-dependent signal from the optical module; ii) determine

a time difference between the first and second time-dependent signals; and iii) determine

blood pressure information from the time difference between the first and second time-

dependent signals;

a short-range wireless transmitter configured to transmit the blood pressure

information to a remote computer; and

a housing configured to be worn on a user's body that comprises the

microprocessor and the short-range wireless transmitter and connects to the optical

module.

Claim 2 is cancelled.

Claim 3 is cancelled.

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Claim 4 (Previously Presented): The blood-pressure monitoring device of claim

1, wherein the optical source comprises a laser or a light-emitting diode.

Claim 5 (Previously Presented): The blood-pressure monitoring device of claim

1, wherein the optical detector comprises a photodiode.

Claim 6 (Previously Amended): The blood-pressure monitoring device of claim 1,

further comprising a component adapted to be mounted on a user's finger that comprises

the optical module.

Claim 7 (Previously Amended): The blood-pressure monitoring device of claim

6, wherein the component adapted to be mounted on the user's finger is an annular ring.

Claim 8 is cancelled.

Claim 9 is cancelled.

Claim 10 (Previously Amended): The blood-pressure monitoring device of claim

1, wherein the short-range wireless transmitter is a radio-frequency transmitter operating

a peer-to-peer, part-15, 802.15, or 802.11 wireless protocol.

Claim 11 (Original): The blood-pressure monitoring device of claim 1, further

comprising an external, secondary wireless component.

Claim 12 (Original): The blood-pressure monitoring device of claim 11, wherein

the external, secondary wireless component comprises a short-range wireless receiver.

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Claim 13 (Previously Amended): The blood-pressure monitoring device of claim

12, wherein the short-range wireless receiver is a radio-frequency receiver operating a

peer-to-peer, part-15, 802.15, or 802.11 wireless protocol.

Claim 14 (Original): The blood-pressure monitoring device of claim 11, wherein

the external, secondary wireless component further comprises a long-range wireless

transmitter.

Claim 15 (Original): The blood-pressure monitoring device of claim 14, wherein

the long-range wireless transmitter is configured to transmit information over a terrestrial,

satellite, or 802.11-based wireless network.

Claim 16 (Previously Presented): The blood-pressure monitoring device of claim

15, wherein the long-range wireless transmitter is configured to transmit data over a

wireless network operating on at least one of the following protocols: CDMA, GPRS,

and analogs and derivatives thereof.

Claim 17 (Previously Amended): The blood-pressure monitoring device of claim

1, wherein the first time-dependent signal comprises a pressure waveform.

Claim 18 (Previously Amended): The blood-pressure monitoring device of claim

17, wherein the second time-dependent signal comprises an optical waveform.

Claim 19 (original): The blood-pressure monitoring device of claim 18, wherein

the microprocessor comprises computer-readable code that processes both the optical and

pressure waveforms to determine blood pressure.

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Claim 20 is cancelled.

Claim 21 (Previously Presented): A blood pressure-monitoring device,

comprising:

a first module comprising a thin-film pressure sensor configured to generate a first

time-dependent signal;

an optical module comprising an optical source and an optical detector

configured to generate a second time-dependent signal;

a microprocessor configured to: i) receive the first time-dependent signal from

the first module and the second time-dependent signal from the optical module; ii)

determine a time difference between the first and second time-dependent signals; and iii)

determine blood pressure information from the time difference between the first and

second time-dependent signals; and

a short-range wireless transmitter that transmits the blood pressure information

to a remote computer.

Claim 22 (Withdrawn): A blood pressure-monitoring device, comprising:

a first module comprising an electrical impedance sensor configured to generate a

first time-dependent signal;

an optical module comprising an optical source and an optical detector

configured to generate a second time-dependent signal;

a microprocessor configured to: i) receive the first time-dependent signal from

the first module and the second time-dependent signal from the optical module; ii)

determine a time difference between the first and second time-dependent signals; and iii)

determine blood pressure information from the time difference between the first and

second time-dependent signals; and,

a short-range wireless transmitter that transmits the blood pressure information

to a remote computer.

Claim 23 (Previously Presented): A blood pressure-monitoring device,

comprising:

a first module configured to generate a first time-dependent signal;

an optical module comprising an optical source and an optical detector

configured to generate a second time-dependent signal;

a microprocessor configured to: i) receive the first time-dependent signal from

the first module and the second time-dependent signal from the optical module; ii)

determine a time difference between the first and second time-dependent signals; and iii)

determine blood pressure information from the time difference between the first and

second time-dependent signals;

a short-range wireless transmitter that transmits the blood pressure information

to a remote computer; and,

a patch that attaches the first module and the optical module to a patient.

Claim 24 (Previously Presented): A blood pressure-monitoring device,

comprising:

a first module configured to generate a first time-dependent signal;

an optical module comprising an optical source and an optical detector configured to

generate a second time-dependent signal;

a microprocessor configured to: i) receive the first time-dependent signal from

the first module and the second time-dependent signal from the optical module; ii)

determine a time difference between the first and second time-dependent signals; and iii) determine blood pressure information from the time difference between the first and second time-dependent signals;

a location-determining component that determines location information of the monitoring device; and,

a short-range wireless transmitter that transmits the blood pressure and location information to a remote computer.

Claim 25 (Previously Presented): A patient monitoring system comprising:

a first module configured to generate a first time-dependent signal;

a watch component which comprises:

an optical module comprising an optical source and an optical detector configured to generate a second time-dependent signal;

a microprocessor configured to: i) receive the first time-dependent signal from the first module and the second time-dependent signal from the optical module; ii) determine a time difference between the first and second time-dependent signals; and iii) determine blood pressure information from the time difference between the first and second time-dependent signals; and

a short-range wireless transmitter that transmits the blood pressure information to an external device;

a wireless network for receiving the blood pressure information from the external device; and,

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an Internet-based system which comprises:

a gateway software piece which receives information from the wireless

network;

a host computer system comprising a database for storing the information;

and,

a website for displaying the information.